

# QUALITY OF SERVICE FUNCTIONS IMPLEMENTED IN INPUT INTERFACE CIRCUIT INTERFACE DEVICES IN COMPUTER NETWORK HARDWARE

## ABSTRACT

The decision to discard or forward a packet is made by a flow control mechanism,  
5 upstream from the forwarding engine in the node of a communication network. The forwarding  
engine includes a switch with mechanism to detect congestion in the switch and return a binary  
signal B indicating congestion or no congestion. The flow control mechanism uses B and other  
network related information to generate a probability transmission table against which received  
packets are tested to determine proactively whether a packet is to be discarded or forwarded.